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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions of claims in the application.

LISTING OF CLAIMS:

1. (currently amended) A position sensor for sensing the position of a piston movable within a cylinder comprising:

a frame;

a spool rotatably mounted to the frame;

a cable windable about the spool and having a distal end adapted to be affixed to the piston, wherein the spool rotates as the cable winds and unwinds in relation to the movement of the piston, said spool operable to travel along a substantially linear path in response to the rotational movement of the spool;

and a sensing means adapted to sense the position of the spool along its substantially linear path, wherein the sensing means includes a transducer mounted to the exterior of the frame and operably disposed to a target magnet movable in cooperation with the movement of the spool.

2. (canceled).

3. (currently amended) The position sensor of claim 1 wherein said transducer is a Hall-effect transducer is mounted to the exterior of said frame.

4. (original) The position sensor of claim 1 wherein the spool travels along a linear path that is parallel to the rotational axis of the spool.

5. (original) The position sensor of claim 1 wherein the spool has a threaded engagement with the frame to cause the linear travel of the spool as the spool rotates.

6. (original) The position sensor of claim 1 wherein the spool has a threaded extension that is threadably engaged with a threaded opening in the frame.

7. (original) The position sensor of claim 6 wherein the frame has a bushing having threads formed therein and the threaded extension has mating threads.